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Prototype Gene Targeting Strategy

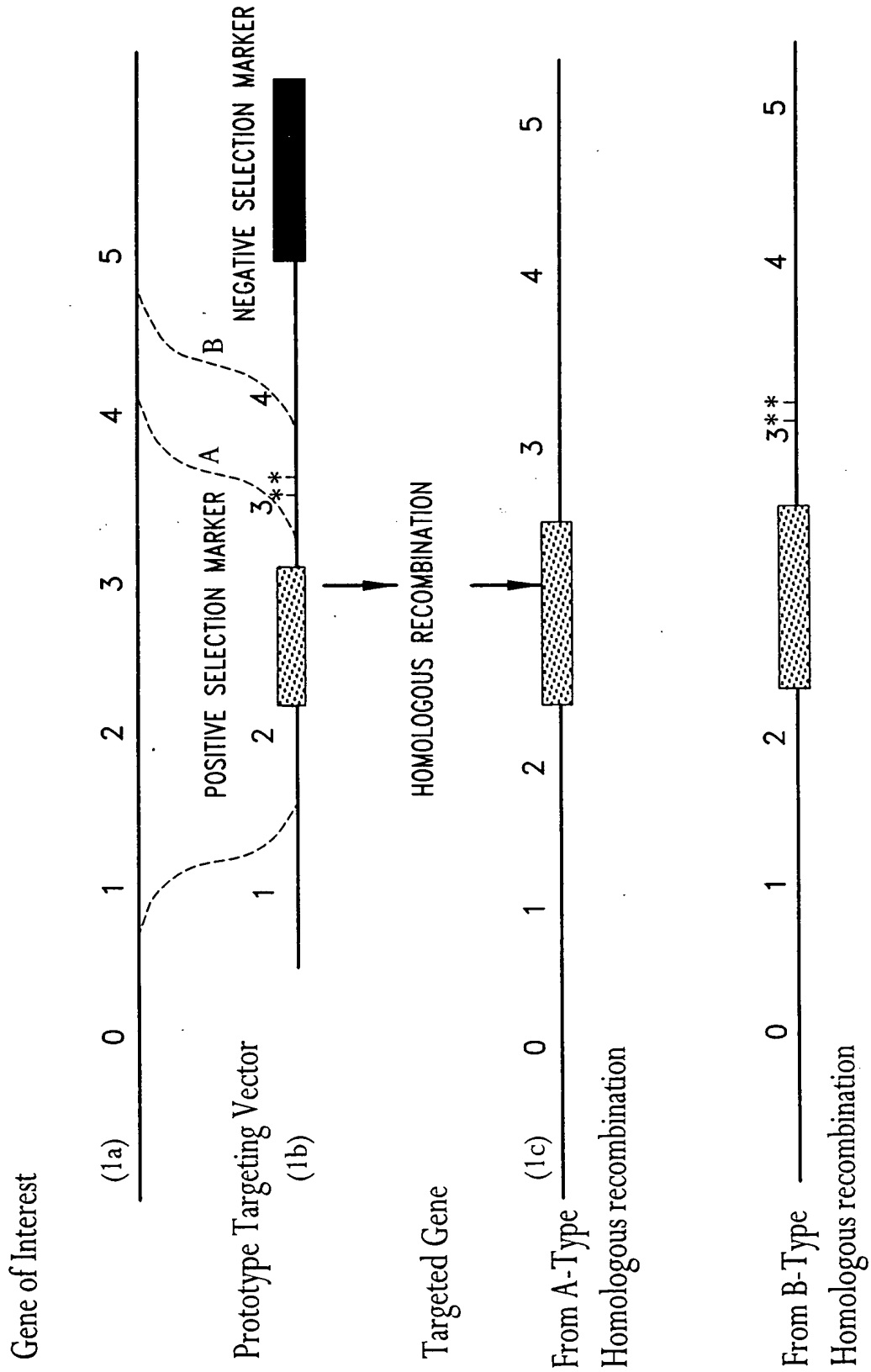


FIG.1

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Mouse PS-1 Exon 8 Region Genomic Clone Maps

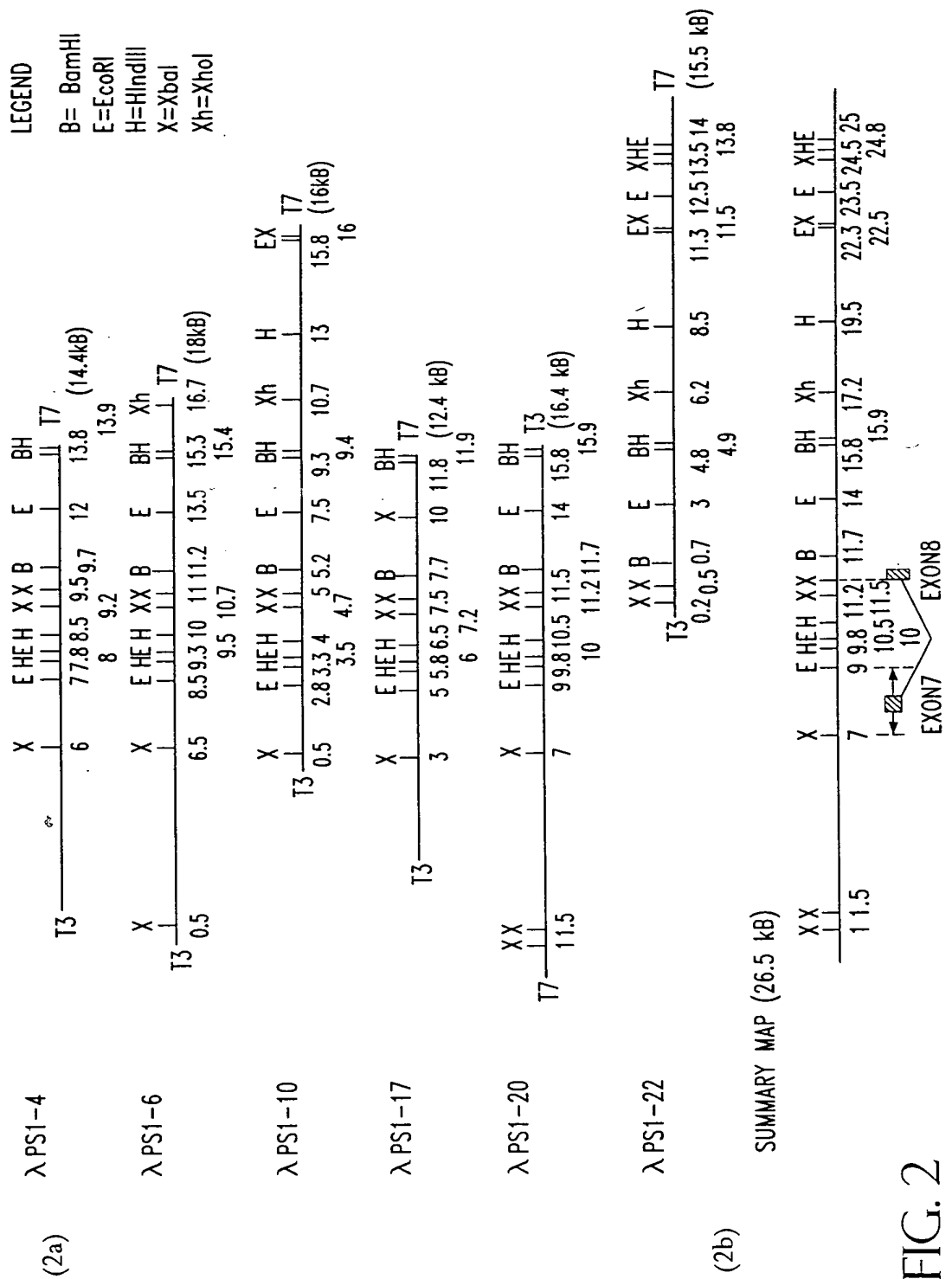


FIG. 2

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Restriction Mapping With FLASHTM Gene Mapping Kit

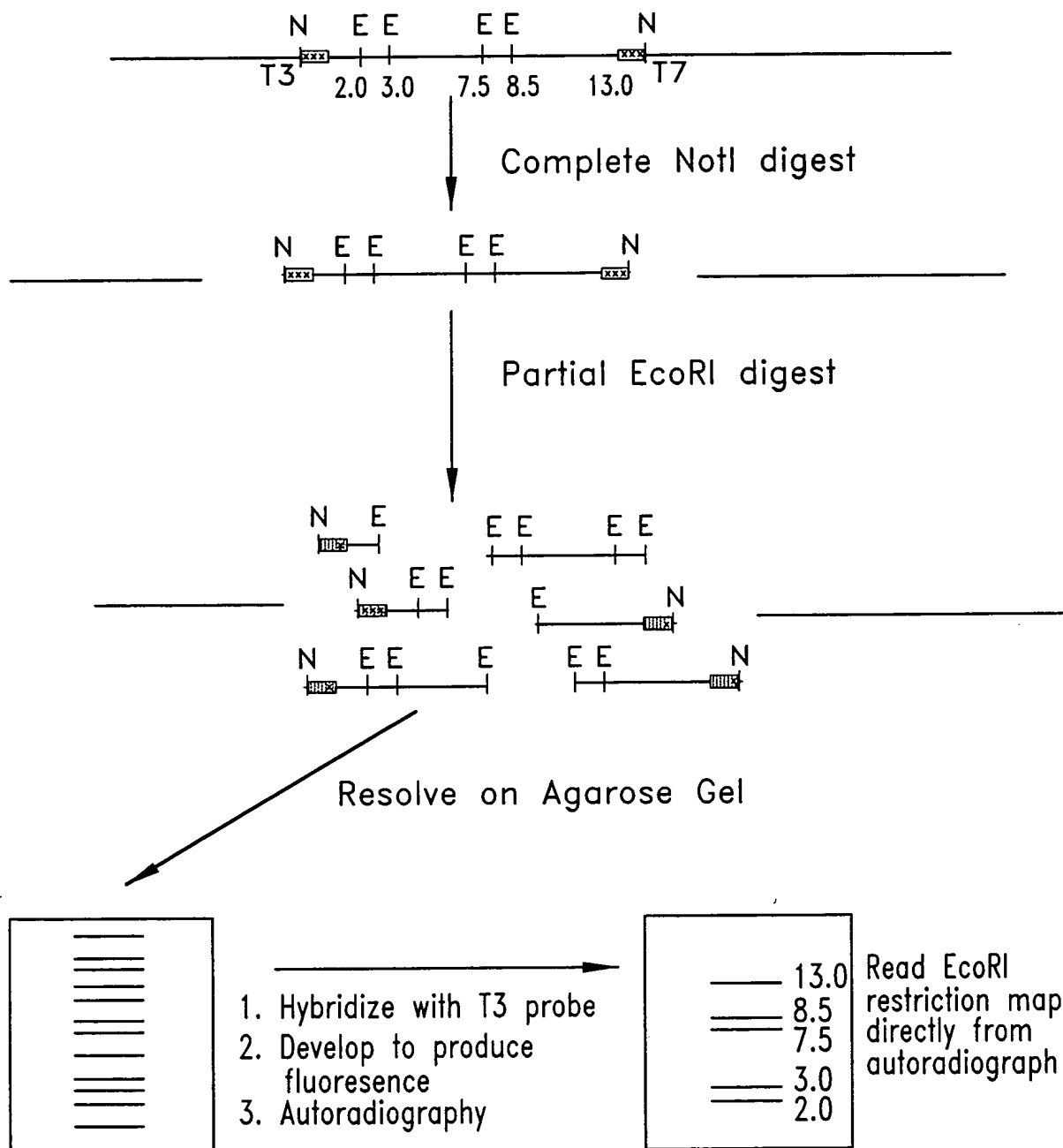


FIG. 3

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Strategy Used to Place Exons 7 and 8 on PSI Restriction Map

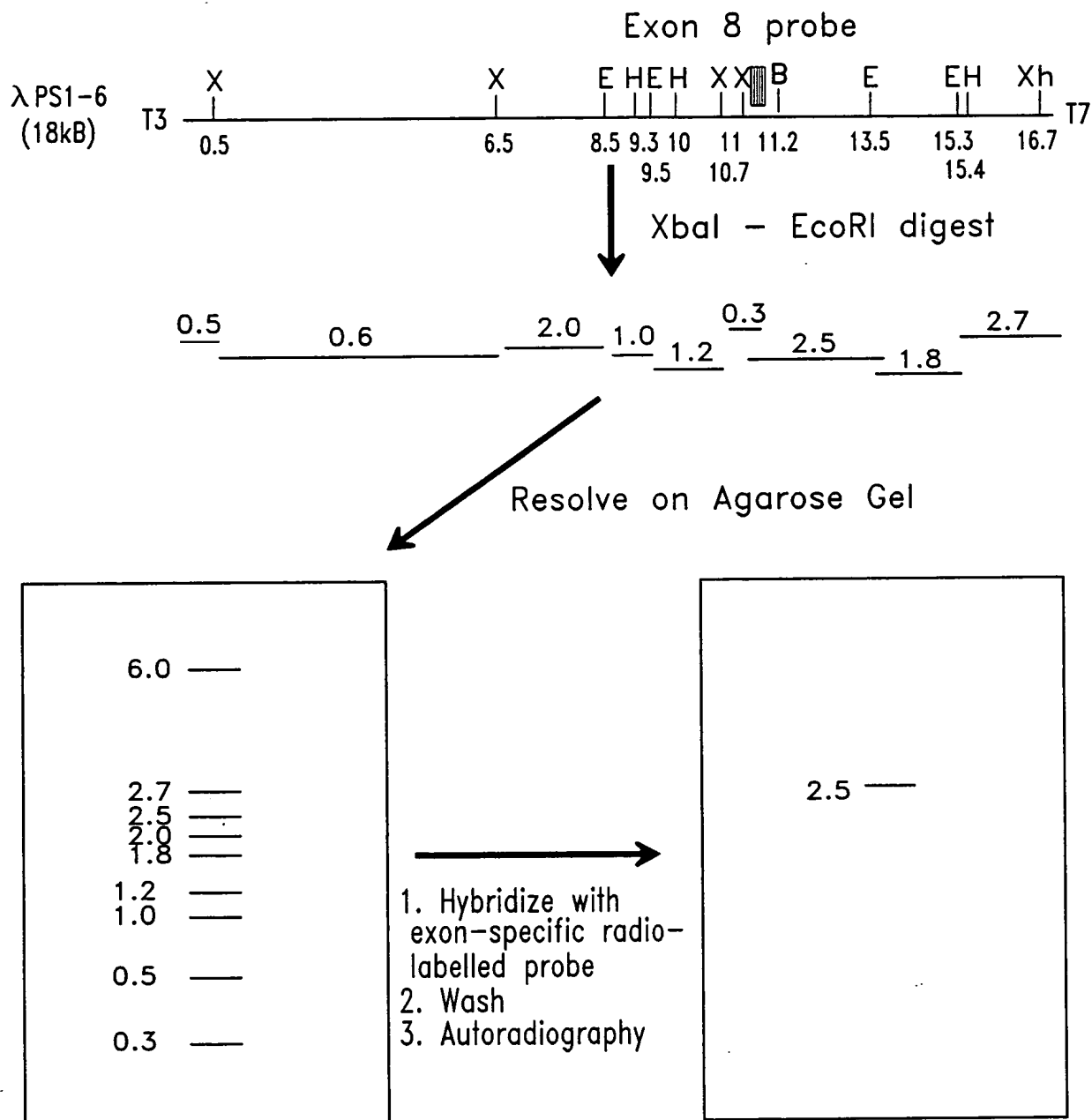
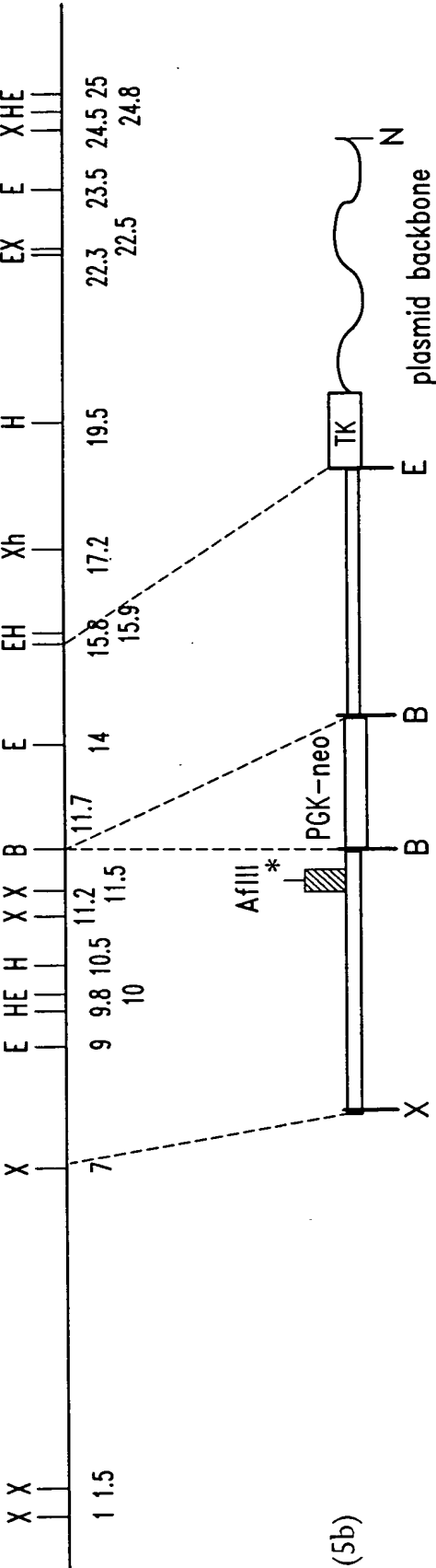


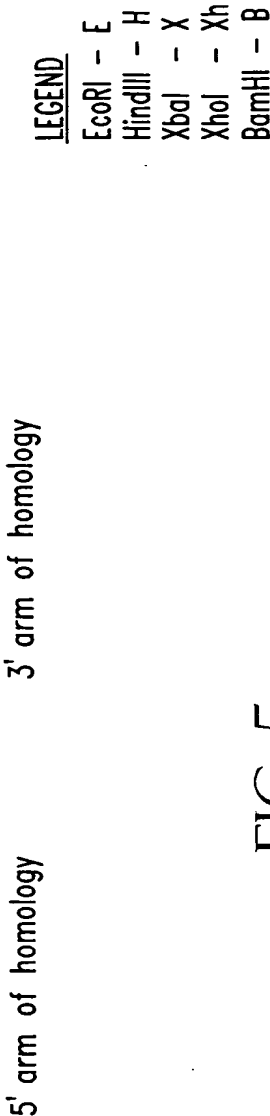
FIG. 4

PS1 Exon 8 Region Genomic Map & pPS1-8-TV Replacement Vector

(5a)



(5b)



LEGEND

- EcoRI - E
- HindIII - H
- XbaI - X
- XhoI - Xh
- BamHI - B

FIG. 5

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pPNTlox² Synthesis

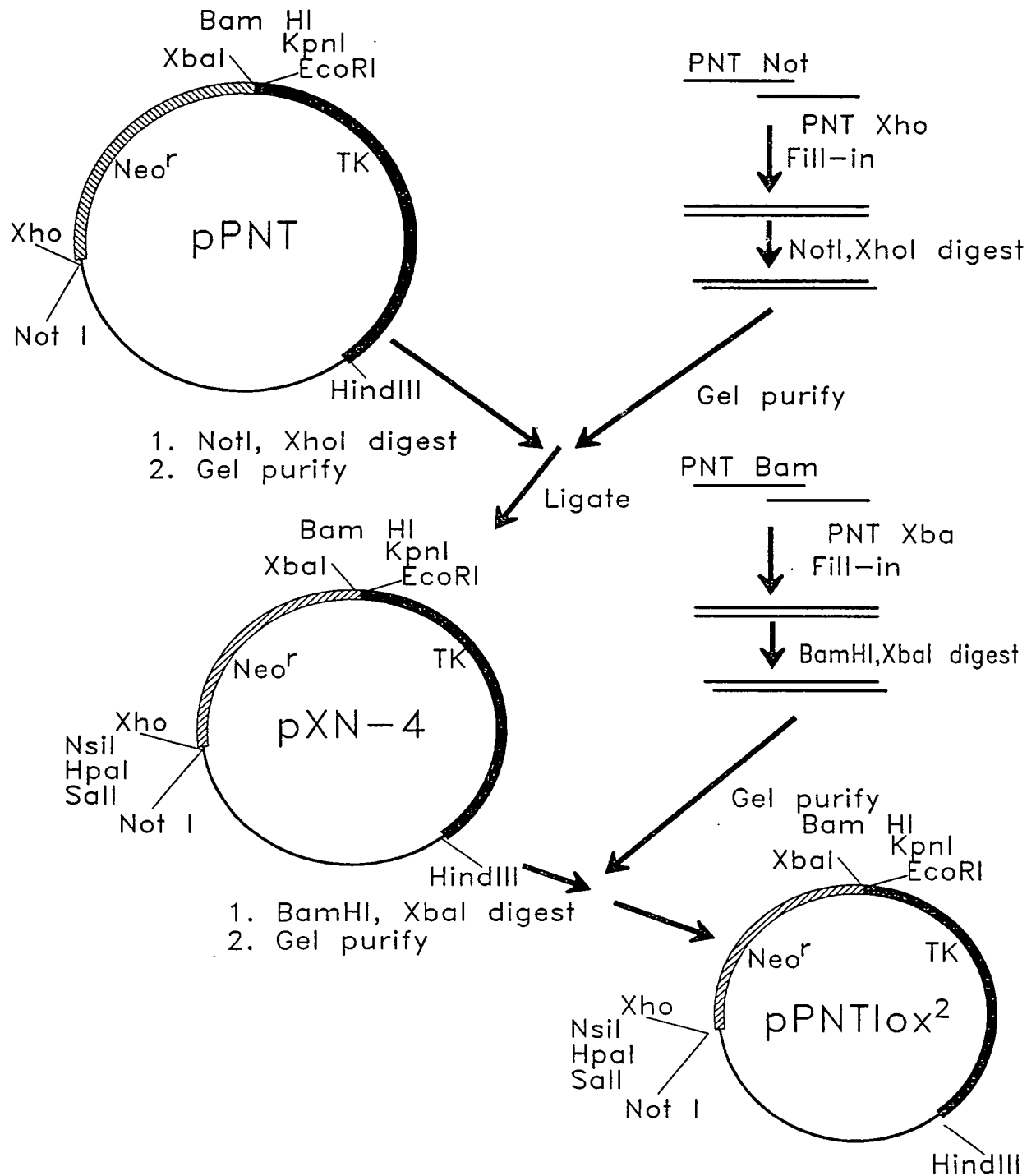


FIG. 6

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pPS1-XH16 Construction

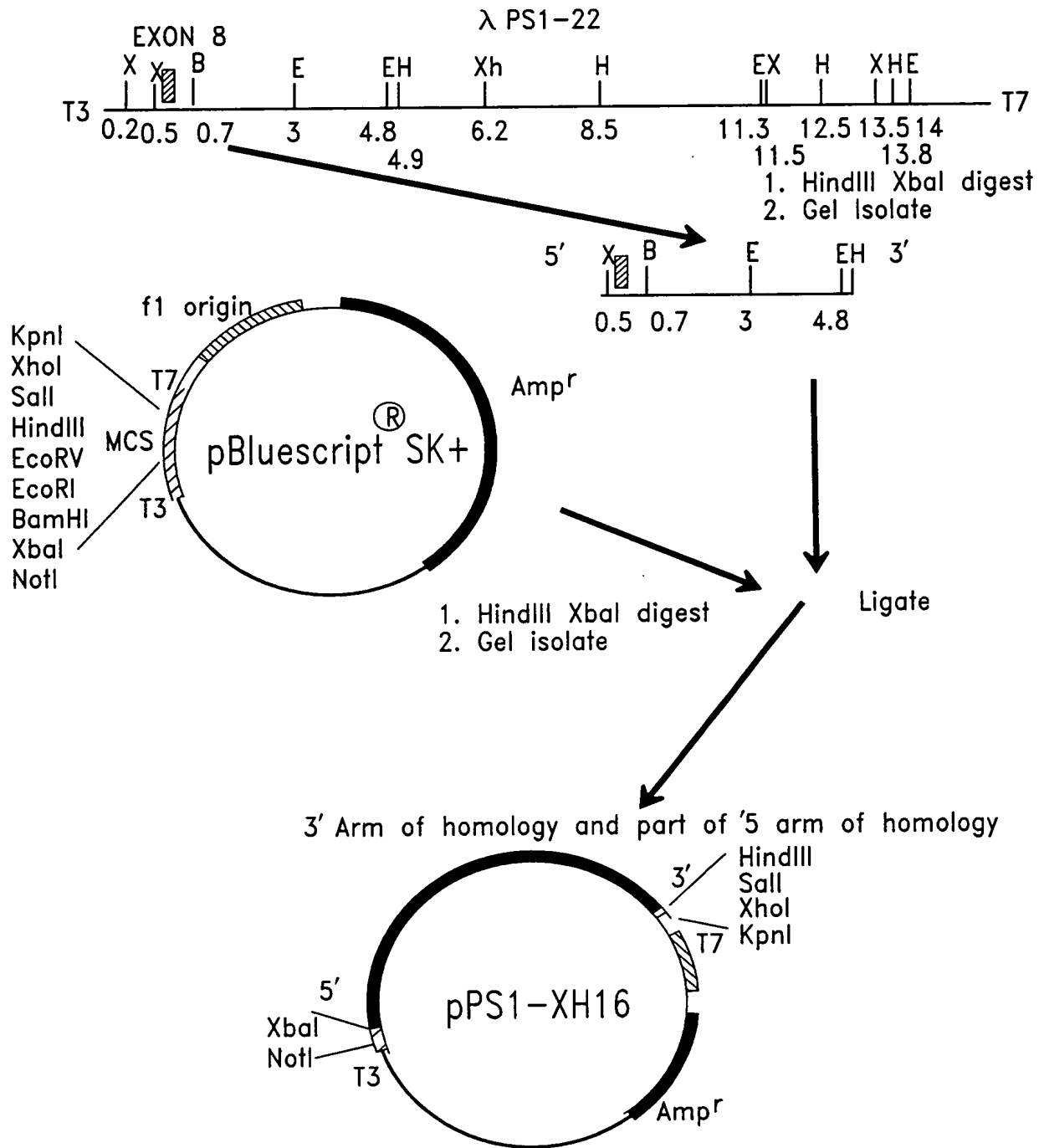


FIG. 7

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pPS1-XB1 Construction

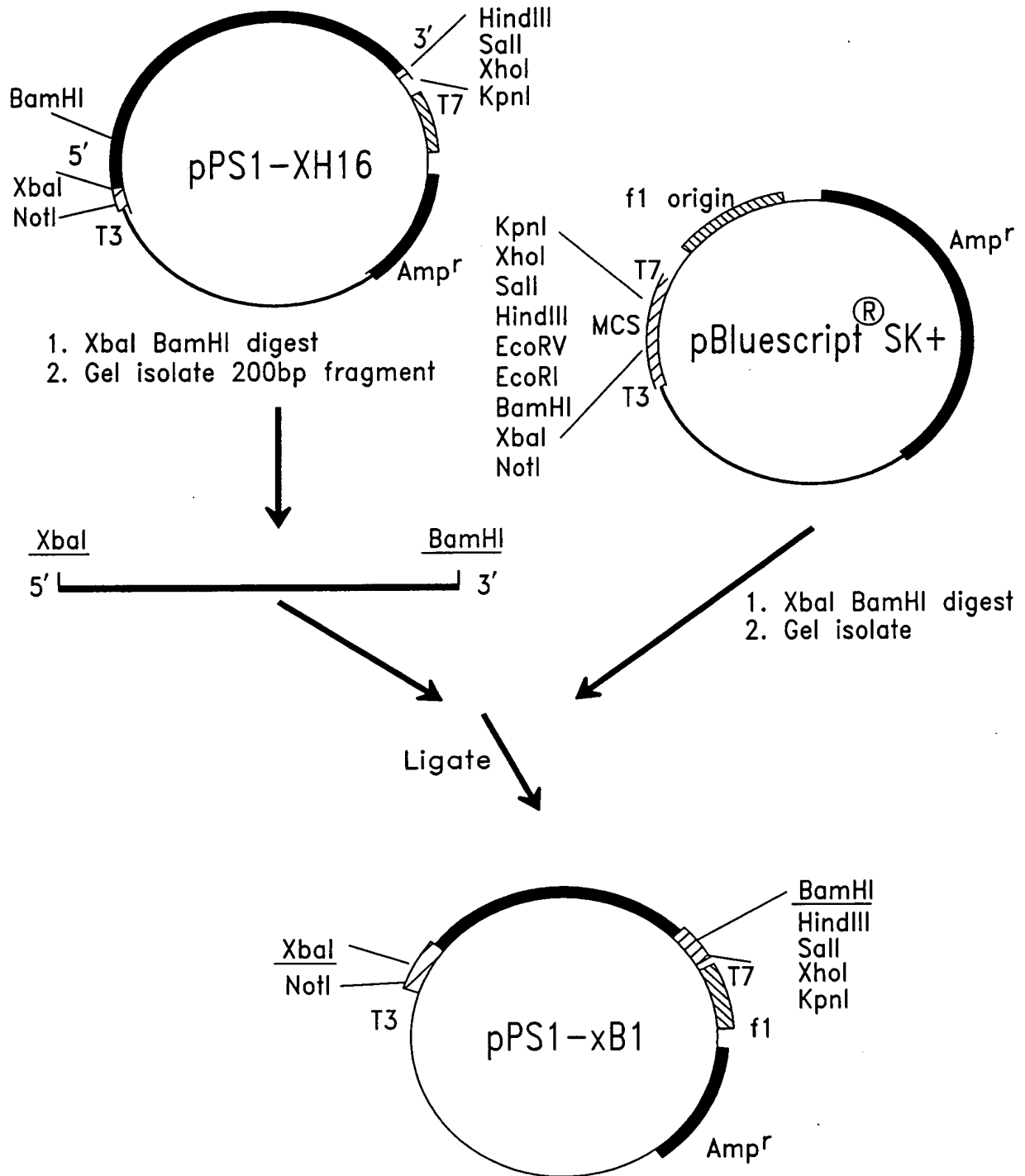


FIG. 8

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pPS1-X15, -X2 Construction

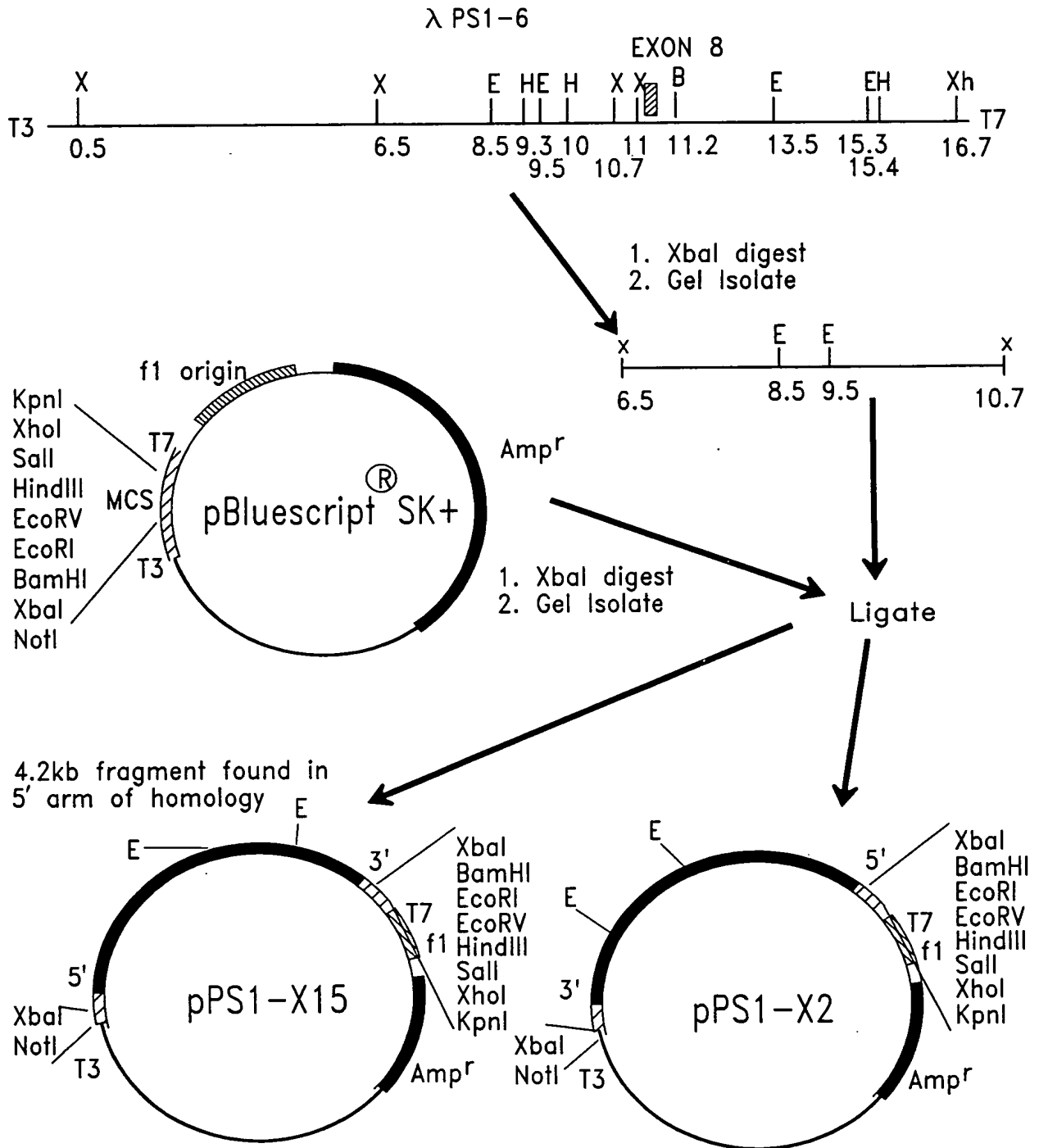


FIG. 9

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pPS1-X319 Construction

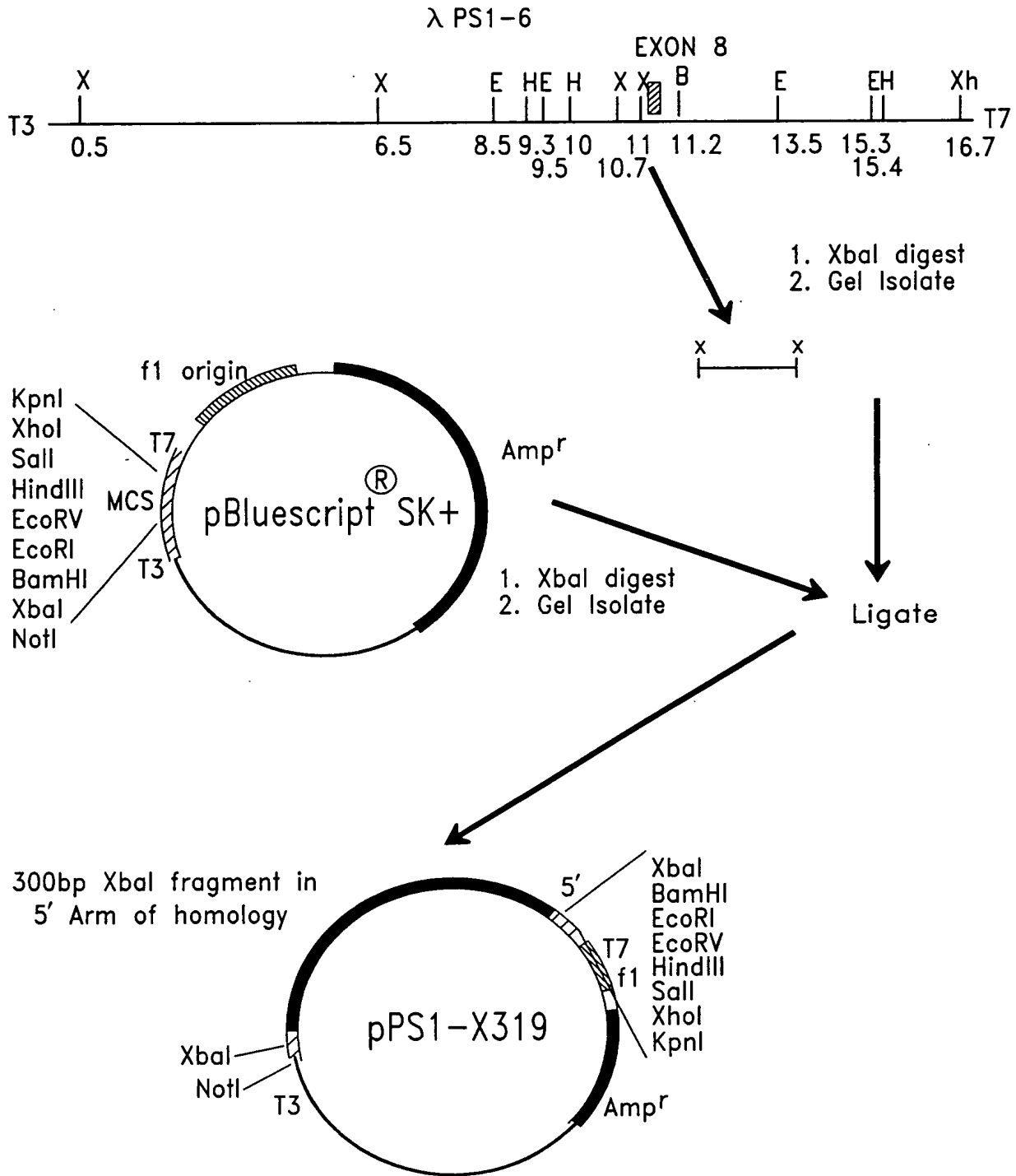


FIG. 10

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Example of Restriction Mapping the 5' Arm of Homology

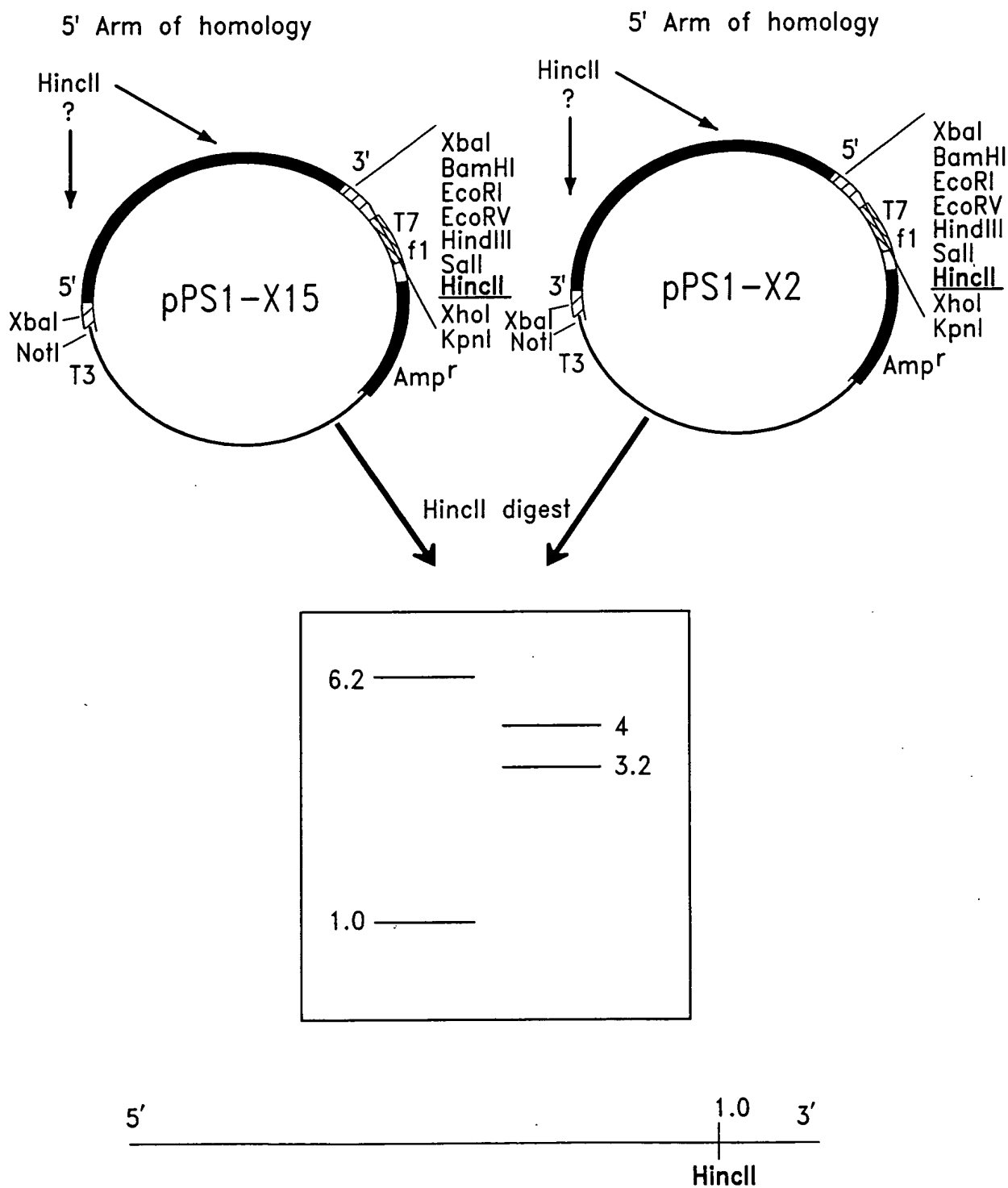


FIG. 11

Detailed Restriction Map Summary For PS1 3' and 5' Arms of Homology

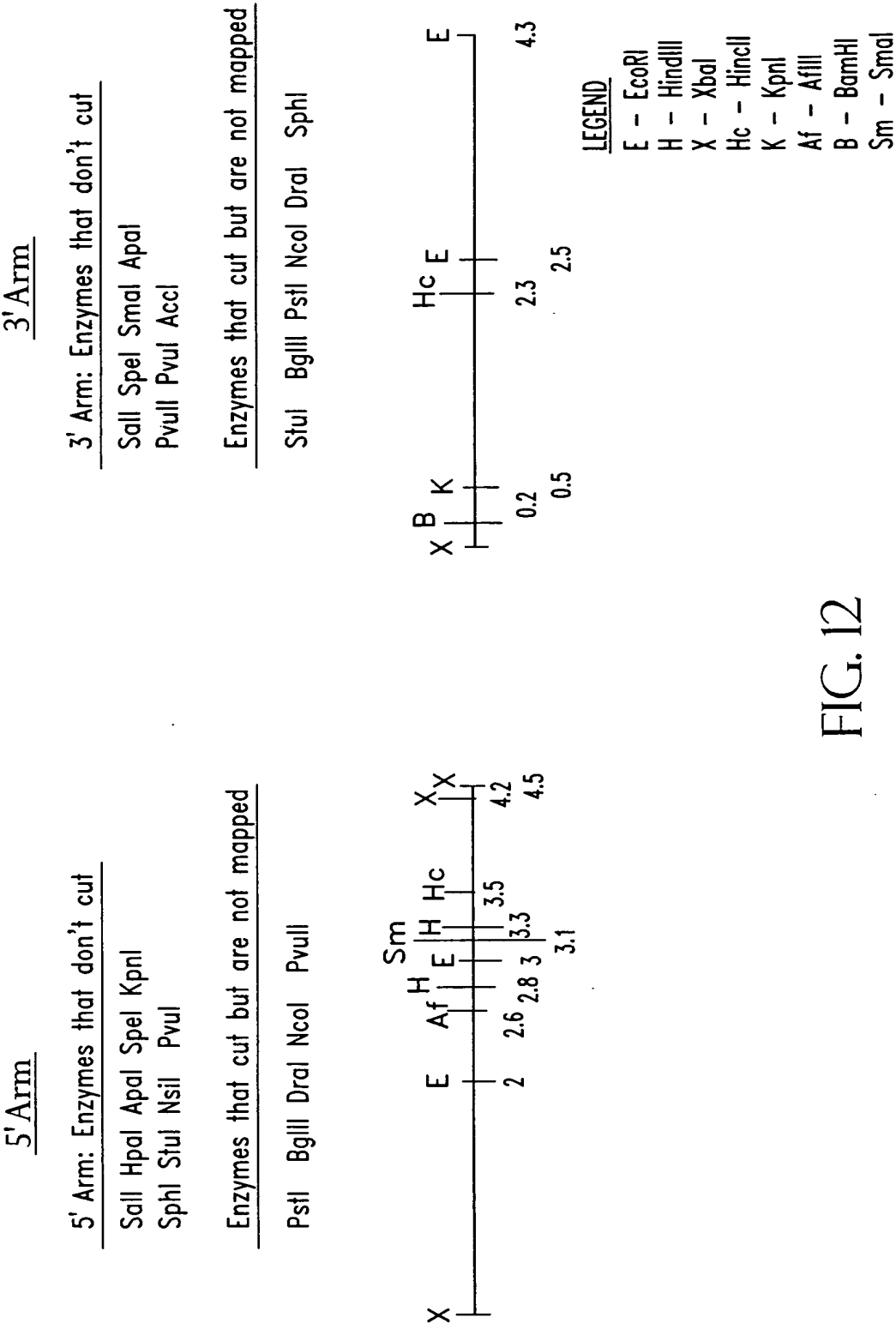


FIG. 12

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PS-1 Exon 8 Mutagenesis

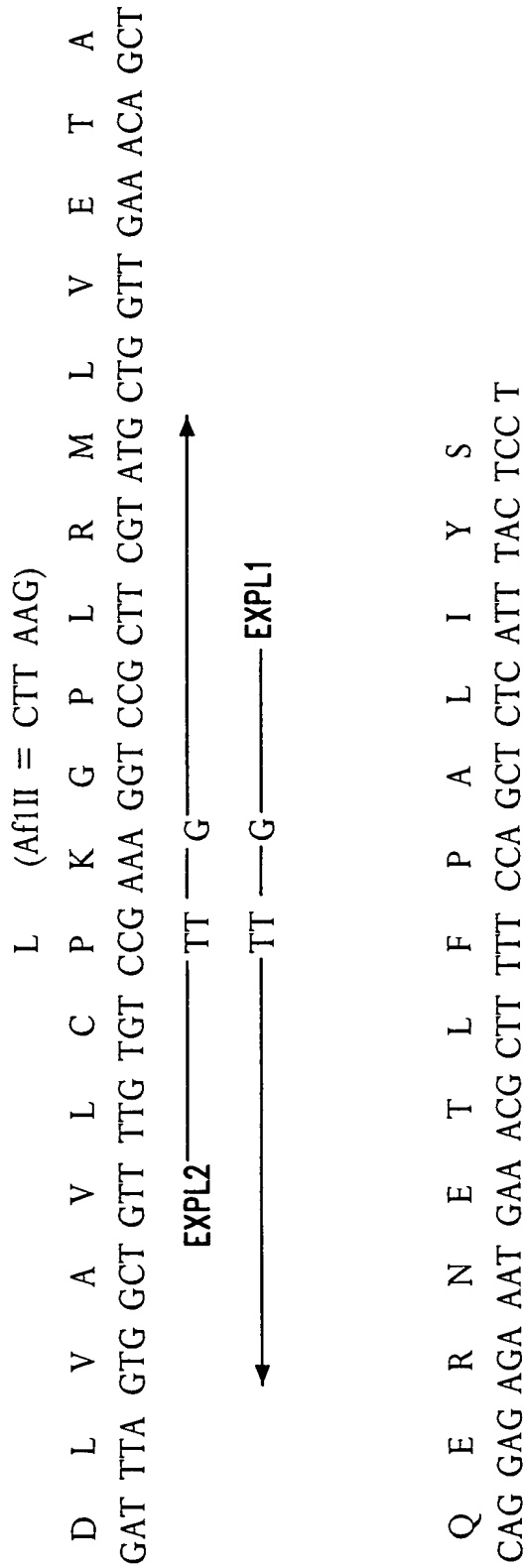


FIG. 13

pPS1-XB85 Construction

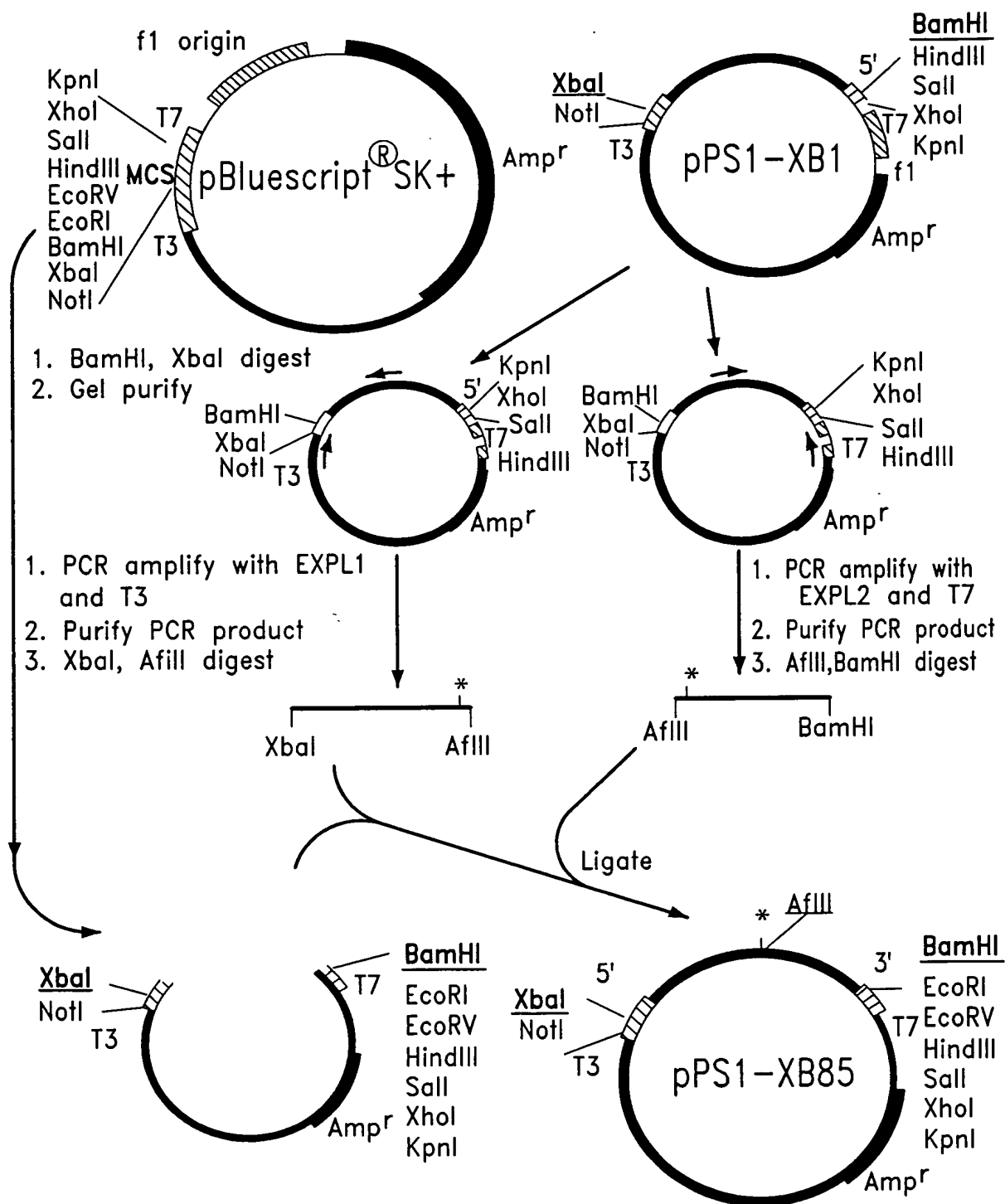


FIG. 14

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pPS1-206 Construction

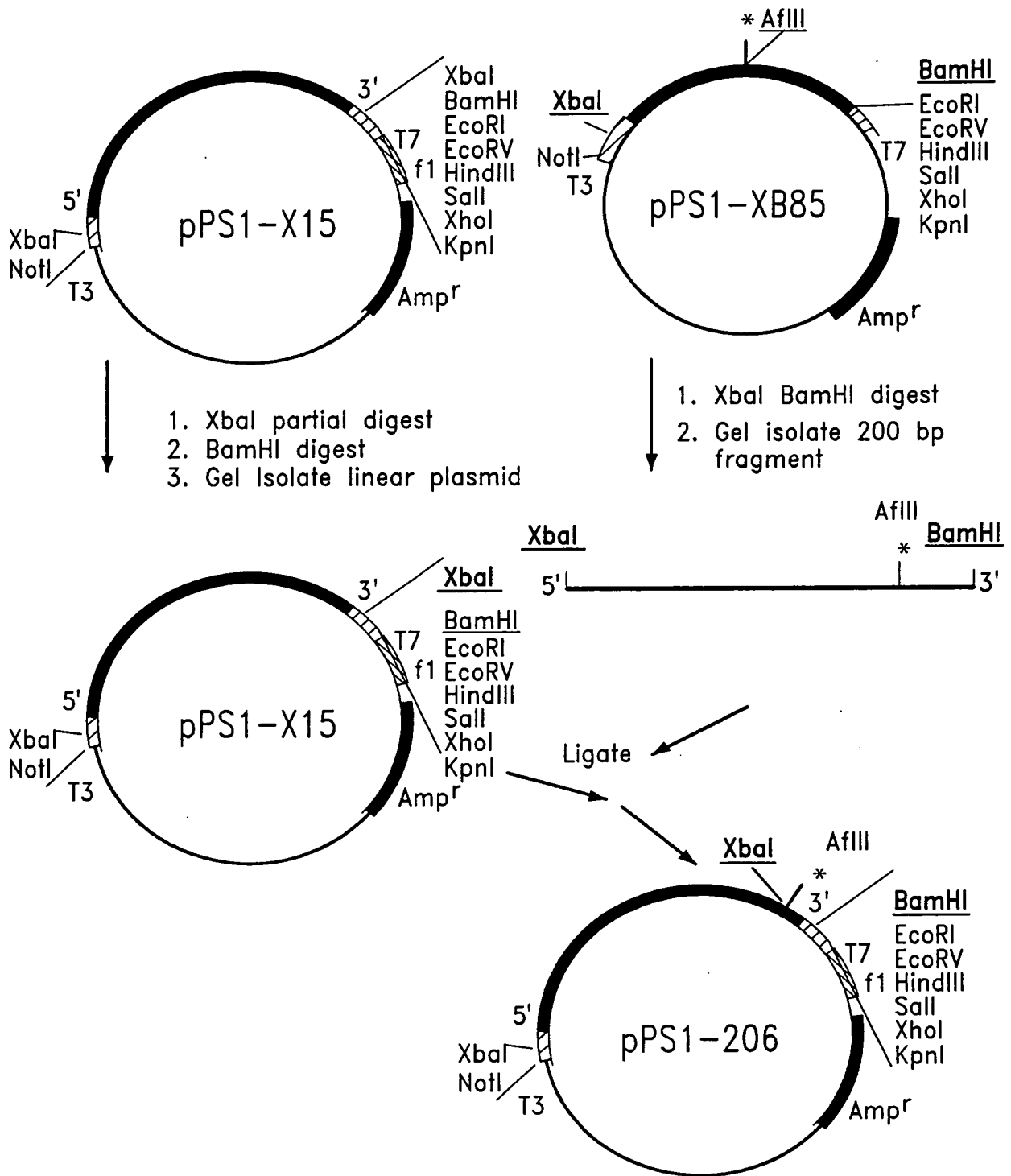


FIG. 15

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pPS1-360 Construction

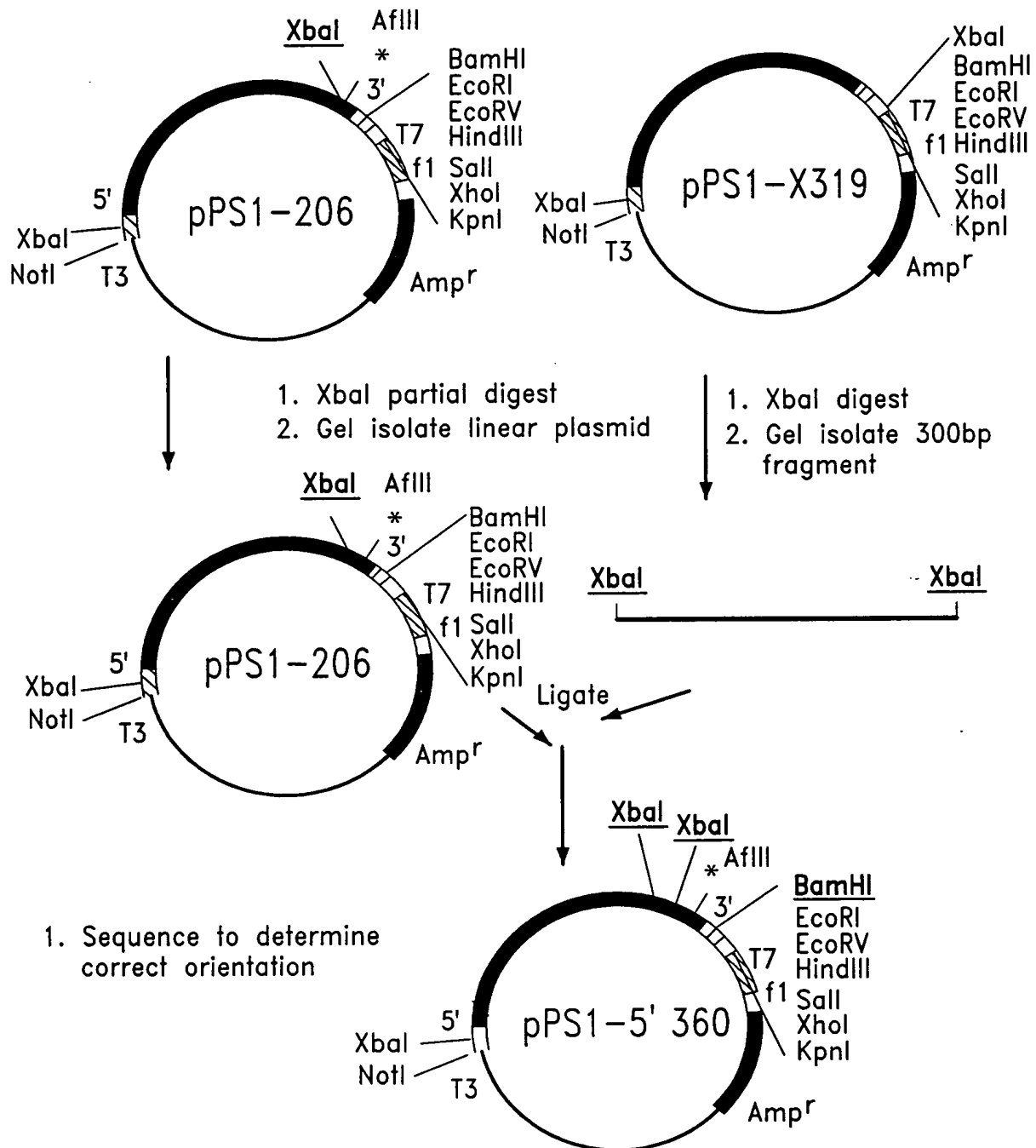


FIG. 16

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pPNT3'413 Construction

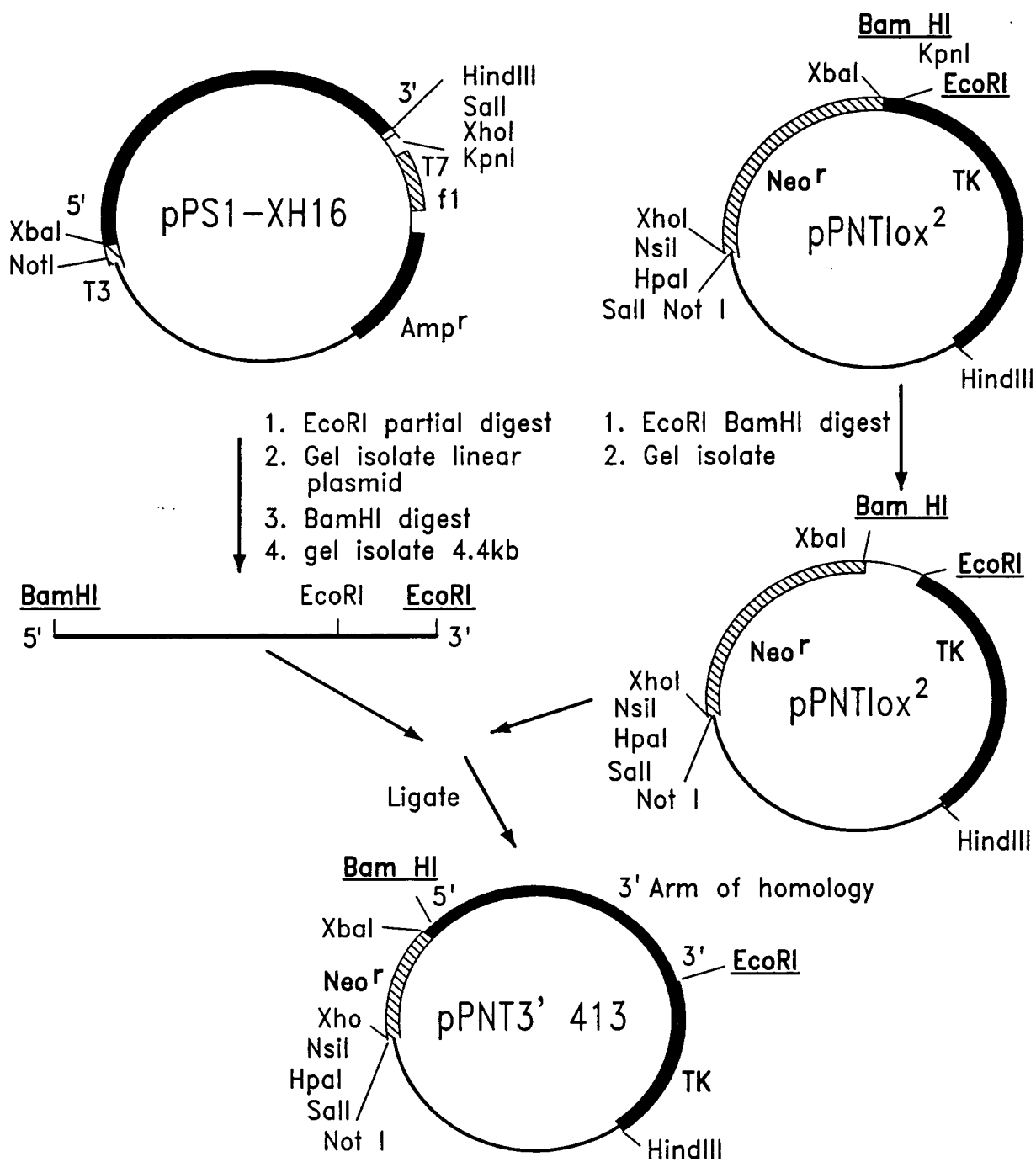


FIG. 17

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pPS1-8-TV Construction

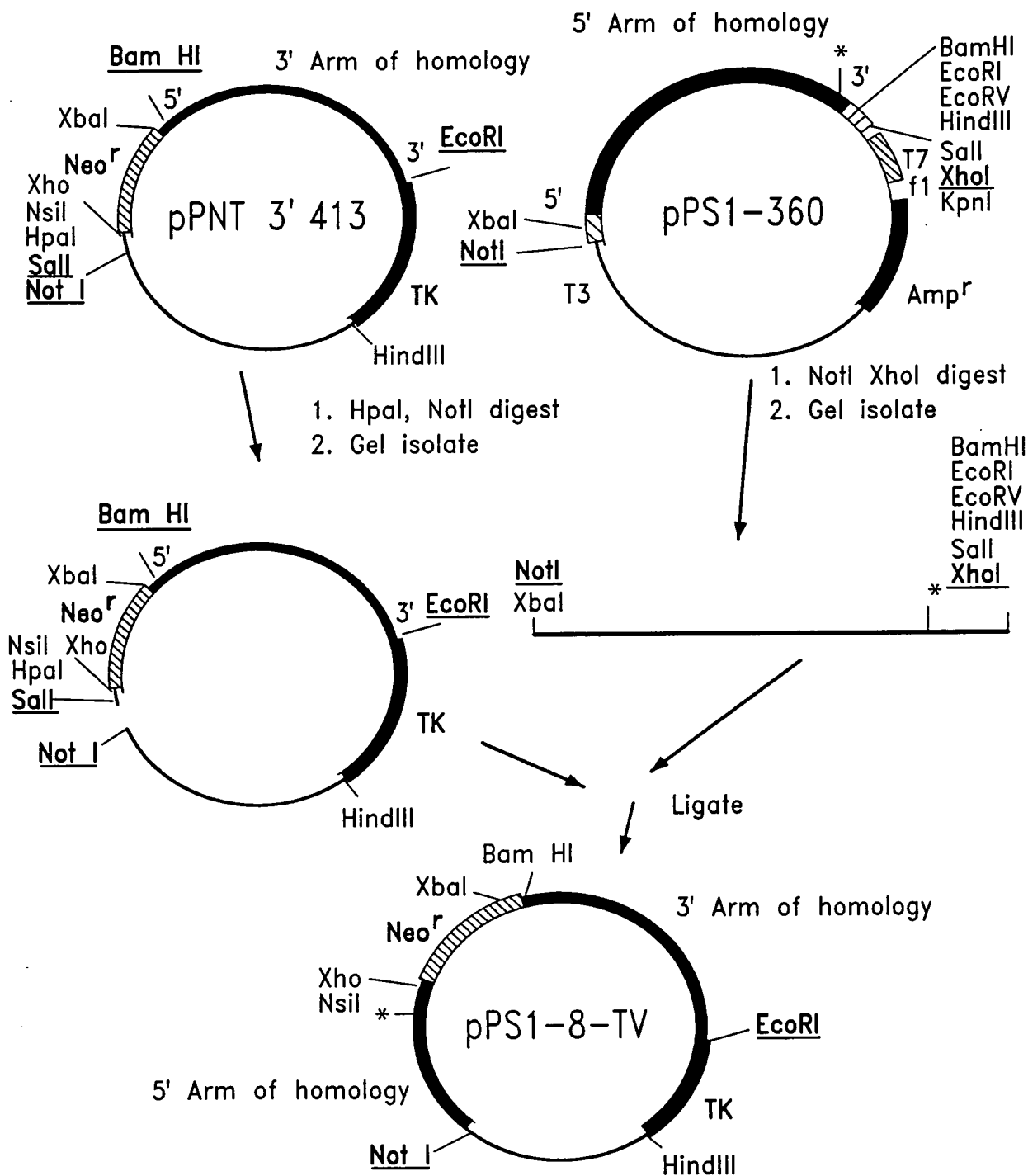


FIG. 18

Strategy to detect homologous recombination within mouse PS1

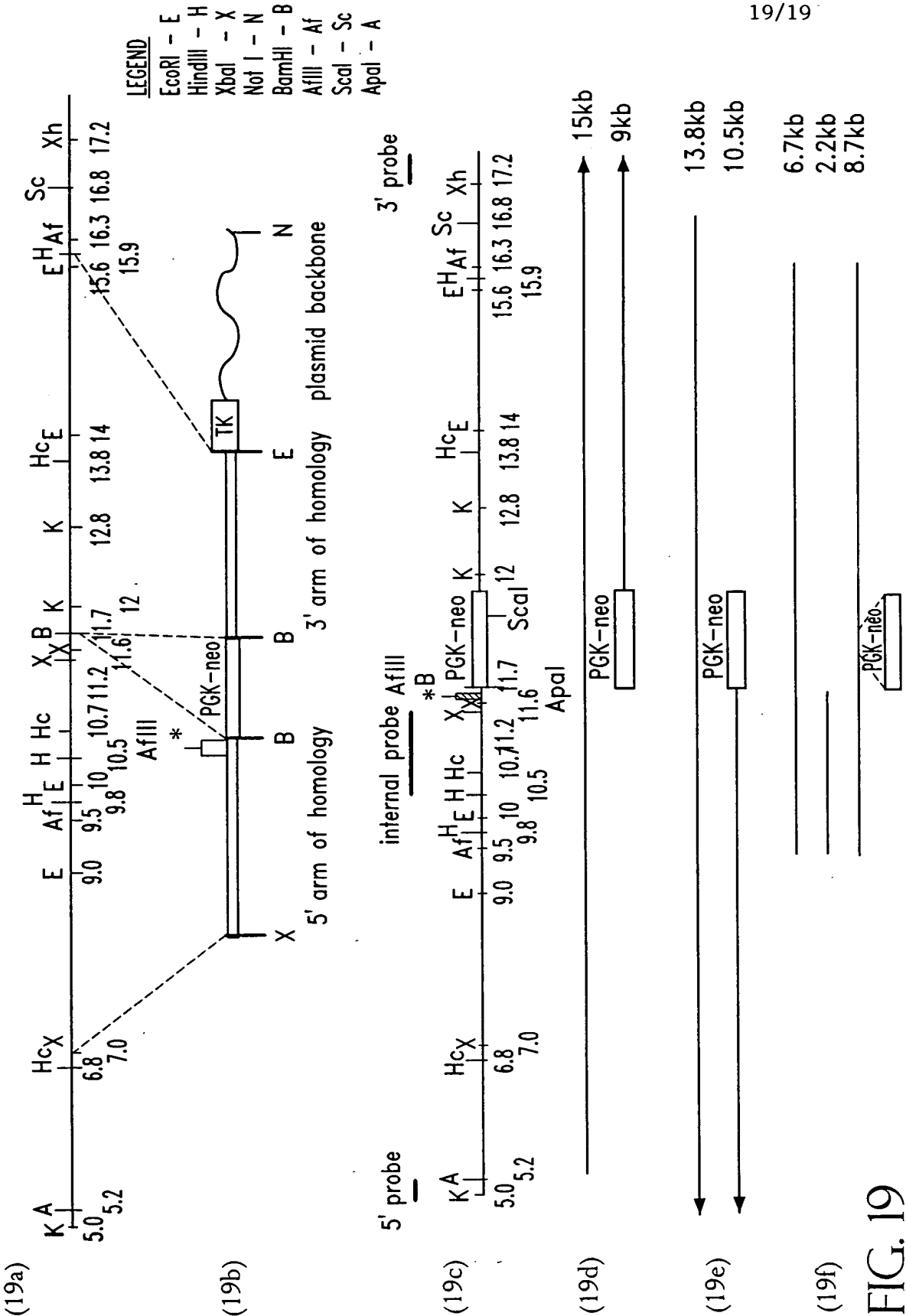


FIG. 19